

LIST OF CLAIMS

The following is a complete listing of revised claims with a status identifier in parenthesis.

1. (Currently Amended) A method for reconfiguring a communication system, comprising the steps of:

receiving, from a mobile station, mobile station capability information including a plurality of the mobile station's capabilities; and

[determining at least one condition associated with a mobile station; and]

selecting one of a plurality of transmit configurations using the [at least one channel condition]mobile station capability information.

2. (Currently Amended) The method of claim 1 [wherein the at least one channel condition is the] further comprising:

receiving information on mobility of the mobile station; and wherein,

the selecting step selects one of the plurality of transmit configurations using the mobile station capability information and the information on the mobility of the mobile station.

3. (Canceled)

4. (Currently Amended) The method of claim 1 [wherein the at least one channel condition is the] further comprising:

receiving information on carrier to noise ratio of a communication channel; and wherein,

the selecting step selects one of the plurality of transmit configurations using the mobile station capability information and information on the carrier to noise ratio of the communication channel.

5. (Currently Amended) The method of claim 1 [wherein the at least one channel condition is the] further comprising:

receiving information on a signal to noise ratio of a communication channel; and wherein,

the selecting step selects one of the plurality of transmit configurations using the mobile station capability information and information on the signal to noise ratio of the communication channel.

6. (Currently Amended) The method of claim 1 [wherein the at least one channel condition is the] further comprising:

receiving information on an error rate; and wherein,

the selecting step selects one of the plurality of transmit configurations using the mobile station capability information and information on the error rate.

7. (Original) The method of claim 1, wherein the step of selecting comprises selecting a single antenna transmit configuration.

8. (Original) The method of claim 1, wherein the step of selecting comprises selecting a selection transmit diversity transmit configuration.

9. (Original) The method of claim 1, wherein the step of selecting comprises selecting a space time spreading transmit configuration.

10. (Original) The method of claim 1, wherein the step of selecting comprises selecting a multi-output and multi-input transmit configuration.

11. (Original) The method of claim 1, wherein the step of selecting comprises selecting a configuration that selects one of a plurality of transmit antennas.

12. (Original) The method of claim 1, wherein the step of selecting comprises selecting a configuration that transmits using a plurality of transmit antennas.

13. (Original) The method of claim 12, wherein the step of selecting comprises selecting a configuration that transmits using a plurality of transmit antennas, where each antenna uses a different orthogonal code.

14. (Original) The method of claim 13, wherein the step of selecting comprises selecting a configuration that transmits using a plurality of transmit antennas, where each antenna uses a different Walsh code.

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cont
15. (NEW) A method for reconfiguring a communication system, comprising the steps of:

receiving, from a mobile station, information on mobility of the mobile station;

selecting one of a plurality of transmit configurations using the mobility information.

16. (NEW) A method for reconfiguring a communication system, comprising the steps of:

sending, from a mobile station, mobile station capability information including a plurality of the mobile station's capabilities; and

receiving transmit configuration information indicating a transmit configuration of a base station.

17. (NEW) The method of claim 16, further comprising:
sending, from the mobile station, information on mobility of the mobile
station.

18. (NEW) A method for reconfiguring a communication system,
comprising the steps of:

As added
sending, from a mobile station, information on the mobility of the mobile
station; and

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receiving transmit configuration information indicating a transmit
configuration of a base station.

19. (NEW) The method of claim 1 further comprising:
communicating the selected transmit configuration to the mobile device
over a control channel.

20. (NEW) The method of claim 19 wherein, the control channel is at
least one of a paging channel and synchronization channel.